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TITLE: INVERTER CONTROLLER FOR PHOTOVOLTAIC POWER  
GENERATION

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To secure extraction of the electric power equivalent to the  
maximum

level out of a solar battery even in case a maximum power control circuit has  
an abnormal state, by setting the automatic and manual control modes  
alternately for operation and comparing the electric energy between both  
control modes.

CONSTITUTION: A comparator 31 detects that the voltage of a solar battery 1  
gets out of a prescribed set level in an automatic control operation mode where  
the inverter input voltage is controlled automatically by a maximum voltage  
control circuit 14. As a result, timers 32a~32c are actuated and the  
electric power of the automatic control mode is integrated by a power  
integration circuit 33 and stored in a memory circuit 37a. Then a switch  
circuit 20a is turned off by the output of the timer 32b together with a switch  
circuit 20b turned on respectively. Thus the electric power of a manual

control mode is integrated and stored in a memory circuit 37b. Then a comparator 38 compares the electric power between both memories 37a and 37b and deliver '1' if the electric power of the manual control mode is larger than that of the automatic control mode. Then the circuit 20b is turned on to perform an operation in a manual control mode.

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